CURRICULUM VITAE:

KAREN JANE MEYRICK MORRISON

TRAINING/QUALIFICATIONS:

1998	PhD., Department of Pathology, University of Southampton, U.K. Title of thesis: An investigation of inflammatory cells in asthma as studied by immunocytochemical techniques on bronchial biopsies.
1985	Fellow, Institute of Biomedical Sciences, U.K.
1979	Associate, Institute of Biomedical Sciences, U.K.
1978	BSc. (Hons.) 2.2 Zoology, University of Southampton, U.K.

EMPLOYMENT

PRESENT EMPLOYMENT:

April 2001 – present	Research Scientist, Agensys, Inc., 1545 Seventeenth Street, Santa Monica, CA 90404.

PREVIOUS EMPLOYMENT:

July 1994 - January 2001	B.M.S. 3 (Biomedical Scientist 3), Cardiothoracic Surgery, Imperial College School of Medicine at Harefield Hospital, Harefield, U.K.
September 1993 - July 1994	Research Associate, Smooth Muscle Group, U.M.D.S., St. Thomas's Hospital, London, U.K.
June 1992 -	Research Associate, Department of Medicine,

August 1993	University of Southampton at Southampton General Hospital, Southampton, U.K.
October 1988 - May 1992	Research Assistant, Department of Medicine, University of Southampton at Southampton General Hospital, Southampton, U.K.
September 1987 - October 1988	B.M.S. 2, Department of Histopathology, Royal Victoria Hospital, Boscombe, Bournemouth, U.K.
January 1986 - September 1987	B.M.S. 2, Department of Pathology, University of Southampton at Southampton General Hospital, Southampton, U.K.
November 1979 - January 1986	B.M.S. 1, Department of Pathology, University of Southampton at Southampton General Hospital, Southampton, U.K.
July 1978 - November 1979	Junior 'B' B.M.S., Department of Pathology, University of Southampton at Southampton General Hospital, Southampton, U.K.

EXPERIENCE:

- General histology. All general histological techniques including the sample preparation, processing, cutting and staining of sections from a variety of frozen, paraffin and resin embedded tissue.
- Immunohistochemistry. Extensive knowledge of numerous immunohistochemical techniques in a variety of tissue and cell preparations. These include the development and adaptation of various methods in frozen, paraffin and resin embedded preparations.
- Quantitative techniques. Methods for the evaluation of cells and tissue sections using both manual and computer-aided systems.
- In situ hybridisation. The use of non-radiolabeled techniques for the demonstration of mRNA in tissue sections.
- Responsibility. Instrumental in the establishment and day to day running of immunohistochemistry and general histology units previously for the Department of Medicine, Southampton General

Hospital; Smooth Muscle Group, St Thomas's Hospital and Department of Cardiothoracic Surgery, Imperial College at Harefield Hospital and in the current post

- Training and supervision. The training and supervision of undergraduate and PhD students, biomedical scientists, academic research staff and clinicians undertaking projects requiring histological techniques. Teaching immunohistochemistry to visitors from other research institutions both in the U.K. and abroad.
- Computer literacy. Literate in a broad spectrum of software including Office, image analysis and statistical packages.

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PUBLICATIONS:

Judd MA and **Britten (now Morrison) KJM**. (1982) Tissue preparation for the demonstration of surface antigens by immunoperoxidase techniques. Histochemical Journal 14 : 747 - 753.

Stratford N, **Britten KJM** and Gallagher PJ. (1985) Inflammatory infiltrates in human coronary atherosclerosis. Atherosclerosis 59 : 271 - 276.

Jones DB, **Britten KJM**, de Sousa M and Wright DH. (1985) The distribution of ferritin and ferric iron in the spleens of lymphoma patients and controls. In: Proteins of the Biological Fluids, Volume 32. Eds: H Reefers. Pergamon Press: Oxford.

Jones DB, **Britten KJM** and Wright DH. (1986) The staining of a panel of routine diagnostic tissue biopsies with workshop 'L' series antibodies. In: Leucocyte typing, Volume 2, Chapter 24. Eds; Reinherz and Nadler. Springer-Verlag: Berlin.

Britten KJM, Jones DB, de Sousa M and Wright DH. (1986) The distribution of iron and iron binding proteins in spleen with reference to Hodgkin's disease. British Journal of Cancer 54 : 277 - 286.

Mepham BL and **Britten KJM**. (1990) Immunocytochemical techniques in lymphoreticular pathology. In: Lymphoproliferative Diseases, Chapter 12. Eds: Jones and Wright. Kluver Academic Publishers: London.

Djukanovic R, Wilson JW, **Britten KJM**, Wilson SJ, Walls AF, Roche WR, Howarth PH and Holgate ST. (1990) Quantitation of mast cells and eosinophils in the bronchial mucosa of symptomatic atopic asthmatics and healthy control subjects using immunohistochemistry. American Review of Respiratory Disease 142 : 863 - 871.

Holgate ST, Djukanovic R, Wilson JW, Roche WR, **Britten KJM** and Howarth PH. (1991) Allergic inflammation and its pharmacological modulation in asthma. International Archives of Allergy and Applied Immunology 94 : 210 - 217.

Howarth PH, Wilson JW, Djukanovic R, Wilson SJ, **Britten KJM**, Walls AF, Roche WR and Holgate ST. (1991) Airway inflammation and atopic asthma: a comparative bronchoscopic investigation. International Archives of Allergy and Applied Immunology 94 : 266 - 269.

Djukanovic R, Wilson JW, **Britten KJM**, Wilson SJ, Walls AF, Roche WR, Howarth PH and Holgate ST. (1992) Effect of inhaled corticosteroid on airway inflammation and symptoms in asthma. American Review of Respiratory Disease 145 : 669 - 674.

Djukanovic R, Lai CKW, Wilson JW, **Britten KJM**, Wilson SJ, Walls AF, Roche WR, Howarth PH and Holgate ST. (1992) Bronchial mucosal manifestations of atopy: a comparison of markers of inflammation between atopic asthmatics, atopic non-asthmatics and healthy controls. European Respiratory Journal 5 : 538 - 544.

Montefort S, Roche WR, Howarth PH, Djukanovic R, Gratziou C, Carroll MP, Smith L, **Britten KJM**, Haskard DO, Lee TH and Holgate ST (1992). ntercellular adhesion molecule-1 (ICAM-1) and endothelial leucocyte adhesion molecule-1 (ELAM-1) expression in the bronchial mucosa of normal and asthmatic subjects. European Respiratory Journal 5 : 815 - 823.

Bradding P, Feather IH, Howarth PH, Mueller R, Roberts JA, **Britten KJM**, Bews JPA, Hunt TC, Okayama Y, Heusser CH, Bullock GR, Church MK and Holgate ST. (1992) Interleukin 4 is localised to and released by human mast cells. Journal of Experimental Medicine 176 : 1381 - 1386.

Britten KJM, Howarth PH and Roche WR. (1993) Immunohistochemistry on resin sections. A comparison of resin embedding techniques for small mucosal biopsies. Biotechnic and Histochemistry 68 : 271 - 280.

Bradding P, Roberts JA, **Britten KJM**, Montefort S, Djukanovic R, Mueller R, Heusser CH, Howarth PH and Holgate ST. (1994) Interleukins 4, 5 and 6 and tumour necrosis factor α in normal and asthmatic airways: evidence for the human mast cell as an important source of these cytokines. American Journal of Respiratory Cell and Molecular Biology 10 : 471 - 480.

Amrani M, Latif N, **Morrison K**, Jayakumar N, Goodwin A, Gray C, Dunn M and Yacoub M. (1998) Relative induction of heat shock protein (HSP70) in coronary endothelial cells versus cardiomyocytes. Implications for myocardial protection. Journal of Thoracic and Cardiovascular Surgery 115 : 200 - 209.

Chester AH, Borland JAA, **Morrison KJM**, Amrani M, Thom S McG and Yacoub MH. (1998) Reactivity of small intra-myocardial arteries from atherosclerotic and non-atherosclerotic human hearts. Journal of Vascular Research 35 : 170 - 178.

Allen S, Dashwood M, **Morrison K** and Yacoub MH. (1998) Differential leukotriene constrictor responses in human atherosclerotic coronary arteries. Circulation 97 : 2406 - 2413.

Borland JA, Chester AH, **Morrison KJM** and Yacoub MH. (1998) Alternative pathways of angiotensin II production in the human saphenous vein. British Journal of Pharmacology 125 : 423 - 428.

Chester AH, **Morrison KJM** and Yacoub MH. (1998) Expression of vascular adhesion molecules in saphenous vein coronary bypass grafts. Annals of Thoracic Surgery 65 : 1685 - 1689.

Petrou M, Clarke S, **Morrison K**, Bowles C, Dunn M and Yacoub M. (1999) Clenbuterol increases specific power and twitch speed of skeletal muscle for cardiac assist. Circulation 99 : 713 - 720.

Ensminger SM, Witze O, Spriewald BM, **Morrison K**, Morris PJ, Rose ML and Wood KJ (2000). CD8+ T cells contribute to the development of transplant arteriosclerosis despite CD154 blockade. Transplantation 69 : 2609 – 2612.

Ensminger SM, Spriewald BM, Witze O, **Morrison K**, Morris PJ, Rose ML and Wood KJ (2000). Intragraft IL-4 expression following CD154 blockade may trigger delayed development of transplant arteriosclerosis in the absence of CD8+ T cells. Transplantation 70 : 955 - 963.

Raisky O, **Morrison KJM**, Obadia JF, McGregor J, Yacoub MH and Rose ML (2001). Acute rejection and cardiac graft vasculopathy in the absence of donor derived ICAM-1 or P-selectin. Journal of Heart and Lung Transplantation 20 : 340 – 349.

Abusnara HJ, Smolenski RT, **Morrison K**, Yap J, Sheppard MN, O'Brien T, Suzuki K, Jayakumar J and Yacoub MH (2001). Efficacy of adenoviral gene transfer with manganese superoxide dismutase and endothelial nitric oxide synthase in reducing ischemia and reperfusion injury. European Journal of Cardiothoracic Surgery 20 : 153 – 158.